

**IN THE CLAIMS:**

7. (Amended) A multireactive polymerizable mesogenic compound according to claim

1, wherein  $R^2$  is a group of one of the following formulae

-X-alkyl-CHP<sup>1</sup>-CH<sub>2</sub>-CH<sub>2</sub>P<sup>2</sup> Ia

-X-alkyl-C(CH<sub>2</sub>P<sup>1</sup>)(CH<sub>2</sub>P<sup>2</sup>)-CH<sub>2</sub>P<sup>3</sup> Ib

-X-alkyl-CHP<sup>1</sup>CHP<sup>2</sup>-CH<sub>2</sub>P<sup>3</sup> Ic

-X-alkyl-C(CH<sub>2</sub>P<sup>1</sup>)(CH<sub>2</sub>P<sup>2</sup>)-C<sub>a</sub>H<sub>2a+1</sub> Id

-X-alkyl-CHP<sup>1</sup>-CH<sub>2</sub>P<sup>2</sup> Ie

-X-alkyl-CHP<sup>1</sup>P<sup>2</sup> If

-X-alkyl-CP<sup>1</sup>P<sup>2</sup>-C<sub>a</sub>H<sub>2a+1</sub> Ig

-X-alkyl-C(CH<sub>2</sub>P<sup>1</sup>)(CH<sub>2</sub>P<sup>2</sup>)-CH<sub>2</sub>OCH<sub>2</sub>-C(CH<sub>2</sub>P<sup>3</sup>)(CH<sub>2</sub>P<sup>4</sup>)CH<sub>2</sub>P<sup>5</sup> Ih

-X-alkyl-CH((CH<sub>2</sub>)<sub>a</sub>P<sup>1</sup>)((CH<sub>2</sub>)<sub>b</sub>P<sup>2</sup>) Ii

-X-alkyl-CHP<sup>1</sup>CHP<sup>2</sup>-C<sub>a</sub>H<sub>2a+1</sub> Ik

wherein

alkyl is straight-chain or branched alkylene with 1 to 12 C atoms which may be unsubstituted, mono- or polysubstituted by halogen or CN, one or more non-adjacent CH<sub>2</sub> groups optionally being replaced, in each case independently from one another, by -O-, -S-, -NH-, -N(CH<sub>3</sub>)-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CH=CH- or -C≡C- in such a manner that oxygen atoms are not linked directly to one another,

a and b are identical or different integers from 0 to 6,

X has one of the meanings given in formula I, and

P<sup>1</sup> to P<sup>5</sup> independently have one of the meanings of P given in formula I.

8. (Amended) A multireactive polymerizable mesogenic compound according to claim

5, wherein  $R^2$  is a group of one of the following formulae

-X-alkyl-CHP<sup>1</sup>-CH<sub>2</sub>-CH<sub>2</sub>P<sup>2</sup> Ia

-X-alkyl-C(CH<sub>2</sub>P<sup>1</sup>)(CH<sub>2</sub>P<sup>2</sup>)-CH<sub>2</sub>P<sup>3</sup> Ib

-X-alkyl-CHP<sup>1</sup>CHP<sup>2</sup>-CH<sub>2</sub>P<sup>3</sup> Ic

-X-alkyl-C(CH<sub>2</sub>P<sup>1</sup>)(CH<sub>2</sub>P<sup>2</sup>)-C<sub>a</sub>H<sub>2a+1</sub> Id

-X-alkyl-CHP<sup>1</sup>-CH<sub>2</sub>P<sup>2</sup> Ie

-X-alkyl-CHP<sup>1</sup>P<sup>2</sup> If

-X-alkyl-CP<sup>1</sup>P<sup>2</sup>-C<sub>a</sub>H<sub>2a+1</sub> Ig

-X-alkyl-C(CH<sub>2</sub>P<sup>1</sup>)(CH<sub>2</sub>P<sup>2</sup>)-CH<sub>2</sub>OCH<sub>2</sub>-C(CH<sub>2</sub>P<sup>3</sup>)(CH<sub>2</sub>P<sup>4</sup>)CH<sub>2</sub>P<sup>5</sup> Ih

-X-alkyl-CH((CH<sub>2</sub>)<sub>a</sub>P<sup>1</sup>)((CH<sub>2</sub>)<sub>b</sub>P<sup>2</sup>) Ii

-X-alkyl-CHP<sup>1</sup>CHP<sup>2</sup>-C<sub>a</sub>H<sub>2a+1</sub> Ik

wherein

alkyl is straight-chain or branched alkylene with 1 to 12 C atoms which may be unsubstituted, mono- or polysubstituted by halogen or CN, one or more non-adjacent CH<sub>2</sub> groups optionally being replaced, in each case independently from one another, by -O-, -S-, -NH-, -N(CH<sub>3</sub>)-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CH=CH- or -C≡C- in such a manner that oxygen atoms are not linked directly to one another,

a and b are identical or different integers from 0 to 6,

X has one of the meanings given in formula I, and

P<sup>1</sup> to P<sup>5</sup> independently have one of the meanings of P given in formula I.

May 12, 2003

Reply to Office Action of February 11, 2003

- A<sub>1</sub> Conf 9. (Amended) A multireactive polymerizable mesogenic compound according to claim 7, wherein alkyl is  $-(CH_2)_c-$ , with c being an integer from 1 to 12.
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- P<sub>2</sub> 13. (Amended) A linear or crosslinked polymer obtained by polymerizing a polymerizable mesogenic composition according to claim 11.
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Add the following new claim:

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- A<sub>3</sub> 17. (New) A multireactive polymerizable mesogenic compound according to claim 8, wherein alkyl is  $-(CH_2)_c-$ , with c being an integer from 1 to 12.
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